

L1 619 S (TUMER, N? OR TUMER N?)/AU  
 L2 270 S (LEUSTEK, T? OR LEUSTEK T?)/AU  
 L3 3 S L1 AND L2  
 L4 2 DUPLICATE REMOVE L3 (1 DUPLICATE REMOVED)  
 L5 886 S L1 OR L2  
 L6 883 S L5 NOT L3  
 L7 522 S CYSTATHIONINE(W) GAMMA(W) SYNTHASE  
 L8 2 S L4 AND L7  
 L9 34 S L6 AND L7  
 L10 12 DUPLICATE REMOVE L9 (22 DUPLICATES REMOVED)  
 L11 280 S L7 AND (DNA OR CDNA OR GENE)  
 L12 9 S L11 AND (SELECTION OR SELECTABLE(W) MARKER) AND ETHIONINE  
 L13 9 DUPLICATE REMOVE L12 (0 DUPLICATES REMOVED)  
 L14 9 S L13 NOT L9  
 L15 8 S L13 NOT L3  
 L16 362 S ETHIONINE AND PLANT  
 L17 138 S L16 AND CELL  
 L18 48 S L17 AND TOXI?  
 L19 24 S L18 AND CELL(W) CULTURE  
 L20 23 S L19 NOT L13  
 L21 23 S L20 NOT L9  
 L22 23 S L21 NOT L3  
 L23 23 DUPLICATE REMOVE L22 (0 DUPLICATES REMOVED)

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

72.42

72.63

STN INTERNATIONAL LOGOFF AT 14:36:58 ON 23 SEP 2003

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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 NEWS 2 "Ask CAS" for self-help around the clock  
 NEWS 3 JAN 27 Source of Registration (SR) information in REGISTRY updated  
 and searchable  
 NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in  
 CA/Caplus  
 NEWS 5 FEB 05 German (DE) application and patent publication number format  
 changes  
 NEWS 6 MAR 03 MEDLINE and LMedline reloaded  
 NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded  
 NEWS 8 MAR 03 FRANCEPAT now available on STN  
 NEWS 9 MAR 29 Pharmaceutical Substances (PS) now available on STN  
 NEWS 10 MAR 29 WPIFV now available on STN  
 NEWS 11 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA  
 NEWS 12 APR 26 PROMT: New display field available

NEWS 13 APR 26 IFIPAT/IFIUDB/IFICDB: New super search and display field available

NEWS 14 APR 26 LITALERT now available on STN

NEWS 15 APR 27 NLDB: New search and display fields available

NEWS 16 May 10 PROUSDDR now available on STN

NEWS 17 May 19 PROUSDDR: One FREE connect hour, per account, in both May and June 2004

NEWS 18 May 12 EXTEND option available in structure searching

NEWS 19 May 12 Polymer links for the POLYLINK command completed in REGISTRY

NEWS 20 May 17 FRFULL now available on STN

NEWS 21 May 27 STN User Update to be held June 7 and June 8 at the SLA 2004 Conference

NEWS 22 May 27 New UPM (Update Code Maximum) field for more efficient patent SDIs in CPlus

NEWS 23 May 27 CPlus super roles and document types searchable in REGISTRY

NEWS 24 May 27 Explore APOLLIT with free connect time in June 2004

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004

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FILE 'HOME' ENTERED AT 18:06:46 ON 16 JUN 2004

=> file medline, agricola, caba, caplus, biosis, biotechno		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 18:06:54 ON 16 JUN 2004

FILE 'AGRICOLA' ENTERED AT 18:06:54 ON 16 JUN 2004

FILE 'CABA' ENTERED AT 18:06:54 ON 16 JUN 2004  
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FILE 'CAPLUS' ENTERED AT 18:06:54 ON 16 JUN 2004  
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FILE 'BIOTECHNO' ENTERED AT 18:06:54 ON 16 JUN 2004  
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=> s plant and ethionine  
L1 293 PLANT AND ETHIONINE

=> duplicate remove l1

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L1

L2 220 DUPLICATE REMOVE L1 (73 DUPLICATES REMOVED)

=> s l2 and (cells or tissue)

L3 87 L2 AND (CELLS OR TISSUE)

=> s l2 and resistan?

L4 62 L2 AND RESISTAN?

=> d l4 1-10 ti

L4 ANSWER 1 OF 62 MEDLINE on STN

TI A single-nucleotide mutation in a gene encoding S-adenosylmethionine synthetase is associated with methionine over-accumulation phenotype in *Arabidopsis thaliana*.

L4 ANSWER 2 OF 62 MEDLINE on STN

TI High free-methionine and decreased lignin content result from a mutation in the *Arabidopsis* S-adenosyl-L-methionine synthetase 3 gene.

L4 ANSWER 3 OF 62 MEDLINE on STN

TI Constitutive overexpression of cystathionine gamma-synthase in *Arabidopsis* leads to accumulation of soluble methionine and S-methylmethionine.

L4 ANSWER 4 OF 62 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN

TI Seeking improved nutritional properties for the potato: **ethionine** -**resistant** protoclones.

L4 ANSWER 5 OF 62 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN

TI Isolation of an *Arabidopsis thaliana* mutant, *mtol*, that overaccumulates soluble methionine. Temporal and spatial patterns of soluble methionine accumulation.

L4 ANSWER 6 OF 62 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN

TI Variability among plants from **ethionine resistant** alfalfa tissue cultures *Medicago sativa*, diploids, tetraploids. **Plant** tissue culture 1982 : proceedings, 5th International Congress of **Plant** Tissue and Cell Culture held at Tokyo and Lake Yamanake, Japan, July 11-16, 1982 / edited by Akio Fujiwara.

L4 ANSWER 7 OF 62 CABA COPYRIGHT 2004 CABI on STN

TI Selection of methionine-**resistant** variant in *Onobrychis viciaefolia* Scop.

L4 ANSWER 8 OF 62 CABA COPYRIGHT 2004 CABI on STN

TI Breeding value of forms of lucerne (*Medicago sativa* L.) produced by the in vitro method.

L4 ANSWER 9 OF 62 CABA COPYRIGHT 2004 CABI on STN

TI Response of *Zea mays* and *Lycopersicon esculentum* to the ethylene precursors, L-methionine and L-**ethionine** applied to soil.

L4 ANSWER 10 OF 62 CABA COPYRIGHT 2004 CABI on STN

TI Isolation and analysis of lucerne cell lines **resistant** to analogues of methionine and proline, and regenerates from them.

=> d 14 4,6,7,10 bib

L4 ANSWER 4 OF 62 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.  
(2004) on STN

AN 1999:16520 AGRICOLA

DN IND21967725

TI Seeking improved nutritional properties for the potato: **ethionine** -**resistant** protoclonal.

AU Langille, A.R.; Lan, Y.; Gustine, D.L.

CS University of Maine, Orono, ME.

AV DNAL (SB211.P8A447)

SO American journal of potato research : an official publication of the Potato Association of America, Sept/Oct 1998. Vol. 75, No. 5. p. 201-205  
Publisher: Orono, Me : The Potato Association of America.  
CODEN: AJPRFQ; ISSN: 1099-209X

NTE Includes references

CY Maine; United States

DT Article

FS U.S. Imprints not USDA, Experiment or Extension

LA English

SL Spanish

L4 ANSWER 6 OF 62 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.  
(2004) on STN

AN 83:140878 AGRICOLA

DN IND83116827

TI Variability among plants from **ethionine resistant** alfalfa tissue cultures Medicago sativa, diploids, tetraploids.  
**Plant** tissue culture 1982 : proceedings, 5th International Congress of **Plant** Tissue and Cell Culture held at Tokyo and Lake Yamanake, Japan, July 11-16, 1982 / edited by Akio Fujiwara.

AU Reisch, B.

AV DNAL (QK725.I49 1982)

SO Plant Tissue Cult 1982, 1982? p. 415-416

Publisher: Tokyo : Japanese Association for Plant Tissue Culture, 1982?.

NTE Includes references.

DT Article

FS Non-U.S. Imprint other than FAO

LA English

L4 ANSWER 7 OF 62 CABA COPYRIGHT 2004 CABI on STN

AN 97:90861 CABA

DN 19971606865

TI Selection of methionine-**resistant** variant in Onobrychis viciaefolia Scop

AU Zhao Zhong; Jia JingFen; Zhao, Z.; Jia, J. F.

CS Cell Biology Laboratory, Lanzhou University, Lanzhou 730000, Gansu, China.

SO Acta Botanica Sinica, (1996) Vol. 38, No. 4, pp. 268-275. 18 ref.  
ISSN: 0577-7496

DT Journal

LA Chinese

SL English

ED Entered STN: 19970815

Last Updated on STN: 19970815

L4 ANSWER 10 OF 62 CABA COPYRIGHT 2004 CABI on STN

AN 90:6973 CABA

DN 19901695089  
 TI Isolation and analysis of lucerne cell lines **resistant** to  
 analogues of methionine and proline, and regenerates from them  
 AU Novozhilov, O. V.; Levenko, B. A.; Butenko, R. G. [EDITOR]  
 CS Institut Fiziologii Rastenii i Genetiki, Kiev, Ukrainian SSR.  
 SO Biologiya kul'tiviruemykh kletok i biotekhnologiya, 1, (1988) pp. 176-177.  
 Novosibirsk  
 Price: Conference paper; Abstract only .  
 Meeting Info.: Biologiya kul'tiviruemykh kletok i biotekhnologiya, 1.  
 CY USSR  
 DT Journal  
 LA Russian  
 ED Entered STN: 19941101  
 Last Updated on STN: 19941101

=> d l4 11-20 ti

L4 ANSWER 11 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI DNA methylation of embryogenic carrot cell cultures and its variations as  
 caused by mutation, differentiation, hormones and hypomethylating drugs.  
  
 L4 ANSWER 12 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Selection and characterization of methionine and tryptophan analog  
**resistant** asparagus cells.  
  
 L4 ANSWER 13 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Soybeans and radish leaves contain only one of the sulfonium  
 diastereoisomers of S-adenosylmethionine.  
  
 L4 ANSWER 14 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Altered amino acid biosynthesis in amino acid analog and herbicide-  
**resistant** cells.  
  
 L4 ANSWER 15 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Characterization of cultured tobacco cell lines **resistant** to  
**ethionine**, a methionine analog.  
  
 L4 ANSWER 16 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Regeneration of wheat, rye and triticale plants through tissue culture.  
  
 L4 ANSWER 17 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Selection and analysis of mutants over-producing amino acids of the  
 aspartate family in barley, Arabidopsis and carrot.  
  
 L4 ANSWER 18 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Development of selection strategies for the isolation of methionine  
 accumulating cell lines in Solanum tuberosum L.  
  
 L4 ANSWER 19 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Development of somatic cell genetics systems in Vigna radiata and  
 Phaseolus vulgaris.  
  
 L4 ANSWER 20 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI The selection and regeneration of **ethionine resistant**  
 alfalfa cell lines and the genetic control of regeneration from alfalfa  
 callus cultures.

=> d l4 11,12,14,15,17,18,19,20 bib

L4 ANSWER 11 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 AN 89:48527 CABA  
 DN 19891604726  
 TI DNA methylation of embryogenic carrot cell cultures and its variations as

caused by mutation, differentiation, hormones and hypomethylating drugs  
AU LoSchiavo, F.; Pitto, L.; Giuliano, G.; Torti, G.; Nuti-Ronchi, V.;  
Marazziti, D.; Vergara, R.; Orselli, S.; Terzi, M.  
CS Istituto Internat. di Genet. e Biofisica, CNR, CP 3061, 80100 Napoli,  
Italy.  
SO Theoretical and Applied Genetics, (1989) Vol. 77, No. 3, pp. 325-331. 15  
ref.  
ISSN: 0040-5752  
DT Journal  
LA English  
ED Entered STN: 19941101  
Last Updated on STN: 19941101

L4 ANSWER 12 OF 62 CABA COPYRIGHT 2004 CABI on STN  
AN 87:93315 CABA  
DN 19871665342  
TI Selection and characterization of methionine and tryptophan analog  
**resistant** asparagus cells  
AU Curtiss, C. D.; Widholm, J. M.; Gonzales, R. A.  
CS Dep. Agron., Univ. Illinois, Urbana, IL 61801, USA.  
SO Journal of Plant Physiology, (1987) Vol. 130, No. 2-3, pp. 125-135. 36  
ref.  
ISSN: 0176-1617  
DT Journal  
LA English  
ED Entered STN: 19941101  
Last Updated on STN: 19941101

L4 ANSWER 14 OF 62 CABA COPYRIGHT 2004 CABI on STN  
AN 86:88087 CABA  
DN 19860791953  
TI Altered amino acid biosynthesis in amino acid analog and herbicide-  
**resistant** cells  
AU Gonzales, R. A.; Widholm, J. M.; Neumann, K.H. [EDITOR]; Barz, W.  
[EDITOR]; Reinhard, E. [EDITOR]  
CS Samuel Roberts Noble Foundation, Ardmore, OK 73402, USA.  
SO Primary and secondary metabolism of plant cell cultures, (1985) pp.  
337-343. 25 ref.  
Publisher: Springer-Verlag. Heidelberg  
Meeting Info.: Primary and secondary metabolism of plant cell cultures.  
CY German Federal Republic  
DT Conference Article  
LA English  
ED Entered STN: 19941101  
Last Updated on STN: 19941101

L4 ANSWER 15 OF 62 CABA COPYRIGHT 2004 CABI on STN  
AN 84:138948 CABA  
DN 19840768199  
TI Characterization of cultured tobacco cell lines **resistant** to  
**ethionine**, a methionine analog  
AU Gonzales, R. A.; Das, P. K.; Widholm, J. M.  
CS Dep. of Agron., Illinois Univ., Urbana, IL 61801, USA.  
SO Plant Physiology, (1984) Vol. 74, No. 3, pp. 640-644. 23 ref.  
ISSN: 0032-0889  
DT Journal  
LA English  
ED Entered STN: 19941101  
Last Updated on STN: 19941101

L4 ANSWER 17 OF 62 CABA COPYRIGHT 2004 CABI on STN  
AN 83:88061 CABA  
DN 19831619488  
TI Selection and analysis of mutants over-producing amino acids of the  
aspartate family in barley, Arabidopsis and carrot

L4 ANSWER 22 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Selection of amino-acid analogue **resistant** corn cell lines.

L4 ANSWER 23 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Selection and characterization of a *Daucus carota* L. cell line **resistant** to four amino acid analogues.

L4 ANSWER 24 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Session 2B. Mode of action, selectivity and tolerance - fungicides.

L4 ANSWER 25 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Effect of blasticidin S, **ethionine**, and polyoxin D on stem rust development and host-cell necrosis in wheat near-isogenic for gene Sr6.

L4 ANSWER 26 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Inhibition of corn, soybean, and wheat seedling growth by amino acid analogs.

L4 ANSWER 27 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Inhibition of germination and infection structure formation of *Puccinia coronata* uredospores by **plant** growth regulators and antimetabolites.

L4 ANSWER 28 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Effect of amino acids on development of *Fusarium* wilt of **resistant** and susceptible tomato cultivars.

L4 ANSWER 29 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Methods to identify evolutionarily significant changes in polynucleotide and polypeptide sequences in domesticated plants and animals

L4 ANSWER 30 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Methods to identify evolutionarily significant changes in polynucleotide and polypeptide sequences in domesticated plants and their use in breeding programs

=> d 14 21-23 bib

L4 ANSWER 21 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 AN 81:88510 CABA  
 DN 19811603388  
 TI Selection and characterization of **ethionine-resistant** alfalfa (*Medicago sativa* L.) cell lines  
 AU Reish, B.; Duke, S. H.; Bingham, E. T.  
 CS Agron. Dep., Wis. Univ., Madison, USA.  
 SO Theoretical and Applied Genetics, (1981) Vol. 59, No. 2, pp. 89-94. 23 ref.  
 ISSN: 0040-5752  
 DT Journal  
 LA English  
 ED Entered STN: 19941101  
 Last Updated on STN: 19941101

L4 ANSWER 22 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 AN 80:87393 CABA  
 DN 19791679129  
 TI Selection of amino-acid analogue **resistant** corn cell lines  
 AU Strauss, A.; King, P. J.  
 CS Friedrich Miescher Inst., Basel, Switzerland.  
 SO Maize Genetics Cooperation News Letter, (1979) No. 53, pp. 14.  
 DT Journal  
 LA English  
 ED Entered STN: 19941101  
 Last Updated on STN: 19941101

AU Cattoir-Reynaerts, A.; Degryse, E.; Jacobs, M.  
 CS Laboratorium voor Plantengenetica, Vrije Universiteit Brussel,  
 Saint-Genesius-Rode, Belgium.  
 SO Induced mutations -- a tool in plant research. Proceedings of an  
 international symposium. Vienna, 9-13 March 1981, (1981) pp. 353-361. 20  
 ref.  
 Publisher: IAEA. Vienna  
 Meeting Info.: Induced mutations -- a tool in plant research. Proceedings  
 of an international symposium. Vienna, 9-13 March 1981.  
 CY Austria  
 DT Conference Article  
 LA English  
 ED Entered STN: 19941101  
 Last Updated on STN: 19941101

L4 ANSWER 18 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 AN 83:85847 CABA  
 DN 19821616592  
 TI Development of selection strategies for the isolation of methionine  
 accumulating cell lines in Solanum tuberosum L  
 AU Hunsperger, J. P.  
 CS Mich. State Univ., East Lansing, USA.  
 SO Dissertation Abstracts International, B, (1982) Vol. 43, No. 2, pp. 339B.  
 Order No: DA8216555.  
 DT Abstract  
 LA English  
 ED Entered STN: 19941101  
 Last Updated on STN: 19941101

L4 ANSWER 19 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 AN 83:85843 CABA  
 DN 19821616588  
 TI Development of somatic cell genetics systems in Vigna radiata and  
 Phaseolus vulgaris  
 AU Jacobs, T. W.  
 CS Mich. State Univ., East Lansing, USA.  
 SO Dissertation Abstracts International, B, (1982) Vol. 43, No. 2, pp. 307B.  
 Order No: DA8216557.  
 DT Abstract  
 LA English  
 ED Entered STN: 19941101  
 Last Updated on STN: 19941101

L4 ANSWER 20 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 AN 82:88770 CABA  
 DN 19811604773  
 TI The selection and regeneration of **ethionine resistant**  
 alfalfa cell lines and the genetic control of regeneration from alfalfa  
 callus cultures  
 AU Reisch, B. I.  
 CS Wis. Univ., Madison, USA.  
 SO Dissertation Abstracts International, B, (1981) Vol. 41, No. 9, pp. 3266B.  
 Order No: 8025845.  
 DT Abstract  
 LA English  
 ED Entered STN: 19941101  
 Last Updated on STN: 19941101

=> d l4 21-30 ti

L4 ANSWER 21 OF 62 CABA COPYRIGHT 2004 CABI on STN  
 TI Selection and characterization of **ethionine-resistant**  
 alfalfa (Medicago sativa L.) cell lines.



L4 ANSWER 23 OF 62 CABA COPYRIGHT 2004 CABI on STN  
AN 79:87236 CABA  
DN 19791679216  
TI Selection and characterization of a *Daucus carota* L. cell line  
**resistant** to four amino acid analogues  
AU Widholm, J. M.  
CS Dep. Agron., Ill. Univ., Urbana, USA.  
SO Journal of Experimental Botany, (1978) Vol. 29, No. 112, pp. 1111-1116. 8  
ref.  
ISSN: 0022-0957  
DT Journal  
LA English  
ED Entered STN: 19941101  
Last Updated on STN: 19941101

=> d 14 31-40 ti

L4 ANSWER 31 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Selection and characterization of cultured alfalfa calluses  
**resistant** to **ethionine**

L4 ANSWER 32 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Selection of **ethionine-resistant** variant cell line in  
alfalfa (*Medicago sativa* L.) and study of its characteristics

L4 ANSWER 33 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Transgenic plants having improved flavor properties by increasing free  
methionone levels

L4 ANSWER 34 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Selection of **ethionine-resistant** variant cell line in  
alfalfa A00: A **L-ethionine-resistant** variant cell line  
(MERB) was isolated from the calluses induced from inflorescence explants  
of alfalfa (*Medicago sativa* L.) germinated from seeds treated with space  
conditions.

L4 ANSWER 35 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Selection of methionine-**resistant** variant of *Medicago sativa*

L4 ANSWER 36 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Prospects of the application of biotechnological methods in selection of  
the sugarcane *Saccharum officinarum* L. **resistant** to hypoxia

L4 ANSWER 37 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Association between partial **resistance** to S-(2-aminoethyl)L-  
cysteine and increased methionine levels in inbred lines of rye

L4 ANSWER 38 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Effects of some stress factors on cell culture and seedlings of rice

L4 ANSWER 39 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Selection of alfalfa clones **resistant** to analogs of amino acids  
and streptomycin

L4 ANSWER 40 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Biochemical aspect of varietal **resistance** to rice green  
leafhoppers, *Nephotettix virescens* (Distant) and *Nephotettix nigropictus*  
(Staal)

=> d 14 31-35,39 bib

L4 ANSWER 31 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:804899 CAPLUS  
 DN 136:291865  
 TI Selection and characterization of cultured alfalfa calluses  
**resistant to ethionine**  
 AU Xu, Yunyuan; Jia, Jingfen  
 CS Institute of Botany, Chinese Academy of Sciences, Beijing, 100093, Peop.  
 Rep. China  
 SO Zhiwu Shengli Xuebao (2001), 27(1), 49-54  
 CODEN: CWSPDA; ISSN: 0257-4829  
 PB Kexue Chubanshe  
 DT Journal  
 LA Chinese

L4 ANSWER 32 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:767164 CAPLUS  
 DN 134:190747  
 TI Selection of **ethionine-resistant** variant cell line in  
 alfalfa (Medicago sativa L.) and study of its characteristics  
 AU Wang, Ming-gang; Li, Wu-xing; Chen, Xi; Chen, Mu-chuan  
 CS Key Lab. of the Mini of Edu. Cell Biol. and Tumor Cell Eng., Xiamen Univ.,  
 Xiamen, 361005, Peop. Rep. China  
 SO Xiamen Daxue Xuebao, Ziran Kexueban (2000), 39(5), 686-692  
 CODEN: HMMHAF; ISSN: 0438-0479  
 PB Xiamen Daxue  
 DT Journal  
 LA Chinese

L4 ANSWER 33 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:666857 CAPLUS  
 DN 133:235372  
 TI Transgenic plants having improved flavor properties by increasing free  
 methionone levels  
 IN Tumer, Nilgun E.; Leustek, Thomas  
 PA Rutgers, the State University of New Jersey, USA  
 SO PCT Int. Appl., 30 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000055303	A2	20000921	WO 2000-US7330	20000320
	W:				
	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,				
	CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,				
	IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,				
	MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,				
	SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,				
	AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				
	DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,				
	CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 1999-124961P	P	19990318		
	US 1999-125654P	P	19990322		

L4 ANSWER 34 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:579733 CAPLUS  
 DN 134:113130  
 TI Selection of **ethionine-resistant** variant cell line in  
 alfalfa A00: A **L-ethionine-resistant** variant cell line  
 (MErB) was isolated from the calluses induced from inflorescence explants  
 of alfalfa (Medicago sativa L.) germinated from seeds treated with space  
 conditions.  
 AU Li, Wuxing; Wang, Minggang; Chen, Xi; Jia, Jingfen  
 CS College of Life Science, Lanzhou University, Lanzhou, 730000, Peop. Rep.  
 China

SO Lanzhou Daxue Xuebao, Ziran Kexueban (2000), 36(3), 140-146  
CODEN: LCTHAF; ISSN: 0455-2059  
PB Lanzhou Daxue  
DT Journal  
LA Chinese

L4 ANSWER 35 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1998:660630 CAPLUS  
DN 130:92888  
TI Selection of methionine-**resistant** variant of Medicago sativa  
AU Zhao, Zhong; Jia, Jingfen  
CS Wuxi University of Light Industry, Wuxi, 214036, Peop. Rep. China  
SO Zhiwu Xuebao (1997), 39(10), 933-939  
CODEN: CHWHAY; ISSN: 0577-7496  
PB Kexue Chubanshe  
DT Journal  
LA English

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 39 OF 62 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1991:579542 CAPLUS  
DN 115:179542  
TI Selection of alfalfa clones **resistant** to analogs of amino acids  
and streptomycin  
AU Vlahova, M.; Atanasov, A.  
CS Inst. Genet. Eng., Kostinbrod, 2232, Bulg.  
SO Genetika i Selektsiya (1990), 23(6), 517-24  
CODEN: GESKAC; ISSN: 0016-6766  
DT Journal  
LA Bulgarian

=> d his

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FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT  
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L1 293 S PLANT AND ETHIONINE  
L2 220 DUPLICATE REMOVE L1 (73 DUPLICATES REMOVED)  
L3 87 S L2 AND (CELLS OR TISSUE)  
L4 62 S L2 AND RESISTAN?

=> s cystathionine(s)synthase and ethionine  
L5 38 CYSTATHIONINE(S) SYNTHASE AND ETHIONINE

=> duplicate remove l5  
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n  
PROCESSING COMPLETED FOR L5  
L6 16 DUPLICATE REMOVE L5 (22 DUPLICATES REMOVED)

=> d l6 1-10 ti

L6 ANSWER 1 OF 16 MEDLINE on STN DUPLICATE 1  
TI S-adenosyl-L-methionine is an effector in the posttranscriptional  
autoregulation of the **cystathionine gamma-synthase**  
gene in Arabidopsis.

L6 ANSWER 2 OF 16 MEDLINE on STN DUPLICATE 2  
TI Enhancement of the primary flavor compound methional in potato by  
increasing the level of soluble methionine.

L6 ANSWER 3 OF 16 MEDLINE on STN

TI Identification of a short highly conserved amino acid sequence as the functional region required for posttranscriptional autoregulation of the **cystathionine gamma-synthase** gene in Arabidopsis.

L6 ANSWER 4 OF 16 MEDLINE on STN DUPLICATE 3  
 TI Constitutive overexpression of **cystathionine gamma-synthase** in Arabidopsis leads to accumulation of soluble methionine and S-methylmethionine.

L6 ANSWER 5 OF 16 MEDLINE on STN DUPLICATE 4  
 TI A single-nucleotide mutation in a gene encoding S-adenosylmethionine synthetase is associated with methionine over-accumulation phenotype in Arabidopsis thaliana.

L6 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Transgenic plants having improved flavor properties by increasing free methionone levels

L6 ANSWER 7 OF 16 MEDLINE on STN DUPLICATE 5  
 TI Folate-deficiency-induced homocysteinaemia in rats: disruption of S-adenosylmethionine's co-ordinate regulation of homocysteine metabolism.

L6 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Folate-deficiency-induced homocysteinemia in rats: disruption of S-adenosylmethionine's coordinate regulation of homocysteine metabolism

L6 ANSWER 9 OF 16 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN  
 TI Disruption of thymidylate synthesis and glycine-serine interconversion by L-methionine and L-homocystine in Raji cells

L6 ANSWER 10 OF 16 MEDLINE on STN  
 TI Effect of trypsin, S-adenosylmethionine and **ethionine** on L-serine sulphydrase activity.

=> d 16 11-16 ti

L6 ANSWER 11 OF 16 MEDLINE on STN  
 TI Genetic characterization of the metK locus in Escherichia coli K-12.

L6 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Fermentation production of L-methionine and regulation of L-methionine biosynthesis in Corynebacterium glutamicum. III. L-Methionine production by methionine analog-resistant mutants of Corynebacterium glutamicum

L6 ANSWER 13 OF 16 MEDLINE on STN DUPLICATE 6  
 TI Activation of **cystathionine synthase** by adenosylmethionine and adenosylethionine.

L6 ANSWER 14 OF 16 MEDLINE on STN DUPLICATE 7  
 TI Increase in **cystathionine beta-synthase** activity in the liver of rats treated with L-**ethionine**.

L6 ANSWER 15 OF 16 MEDLINE on STN DUPLICATE 8  
 TI The regulation of methionine synthesis and the nature of **cystathionine gamma-synthase** in Neurospora.

L6 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN  
 TI Inhibition of **cystathionine gamma-synthase** by S-adenosylmethionine: control mechanism for methionine synthesis in Neurospora

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L4 62 S L2 AND RESISTAN?  
L5 38 S CYSTATHIONINE(S) SYNTHASE AND ETHIONINE  
L6 16 DUPLICATE REMOVE L5 (22 DUPLICATES REMOVED)

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FILE LAST UPDATED: 15 Jun 2004 (20040615/ED)  
HIGHEST GRANTED PATENT NUMBER: US6751803  
HIGHEST APPLICATION PUBLICATION NUMBER: US2004111778  
CA INDEXING IS CURRENT THROUGH 15 Jun 2004 (20040615/UPCA)  
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